#1163

1357

OWNER'S MANUAL
MODE D'EMPLOI

PIONEER®

The Art of Entertainment

SM-920

1357

WARNING

Connection

- Remove the negative lead of the battery, otherwise there may be a short circuit, or the lead may be damaged.
- If the fuse in the continuous power supply lead needs to be replaced, use a fuse with the same rating. Do not use a piece of wire instead of the fuse, as it may cause a fire.

Installation

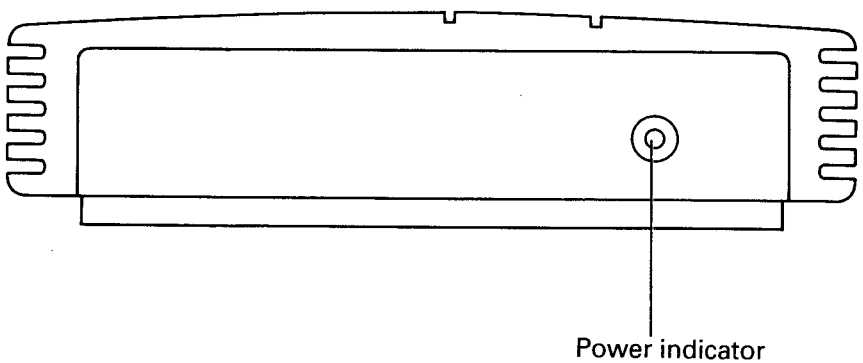
- If the amplifier is installed in the passenger compartment, fix it securely, otherwise it may break free while the car is moving, and cause an injury or an accident.
- Do not install the amplifier anywhere that can get wet, otherwise it may give an electric shock if touched.

Use

- When the amplifier is in use, its temperature reaches 80 degrees Celsius or higher. Do not touch it, otherwise you may be burned.

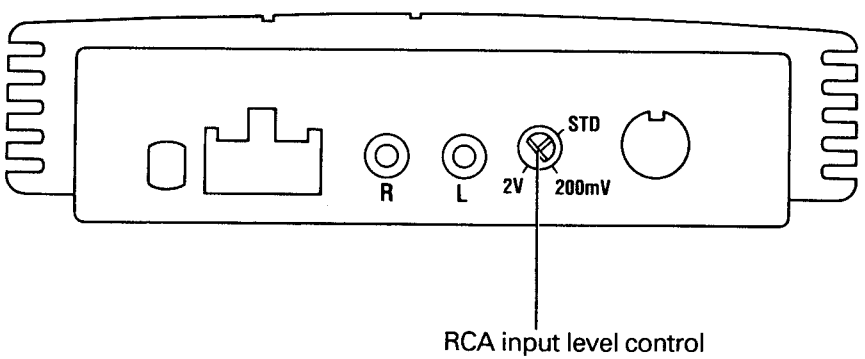
Controls and their Use

Power Indicator
The power indicator lights when the power is switched on.



RCA input level control
The RCA input control level is used to adjust the RCA input level. If the amplifier is connected to a Pioneer car component with RCA pin jacks, set the RCA level control to the STD position. If the amplifier is connected to a non-Pioneer car stereo conponent with RCA pin jacks, adjust the input level as shown in Fig. 1.

- If the amplifier is connected to a Pioneer car stereo component with DIN sockets, the RCA input level control is not used.



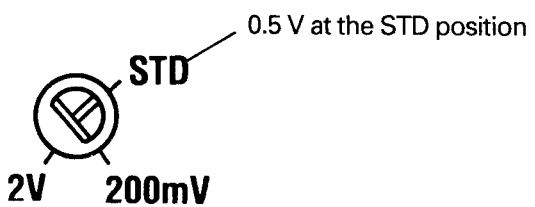
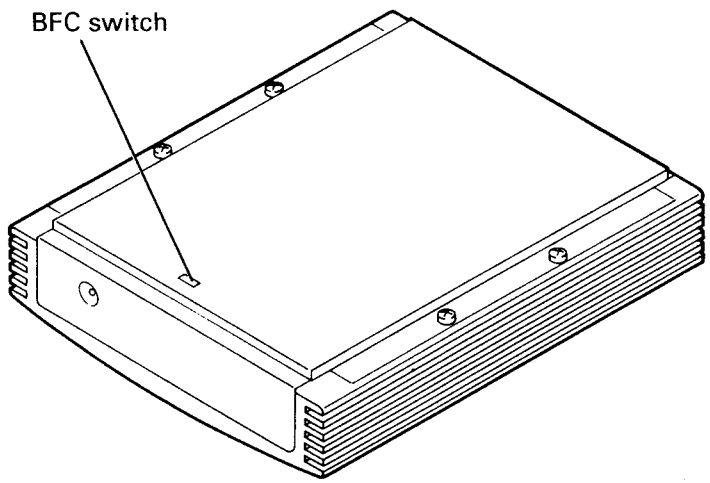


Fig. 1

BFC (Beat Frequency Control) switch

If beating is heard when listening to AM stations on your car radio, change the position of the BFC switch on the bottom of the amplifier with a small flat-bladed screwdriver.



Connecting the Units

Connect the components as shown in the diagram.

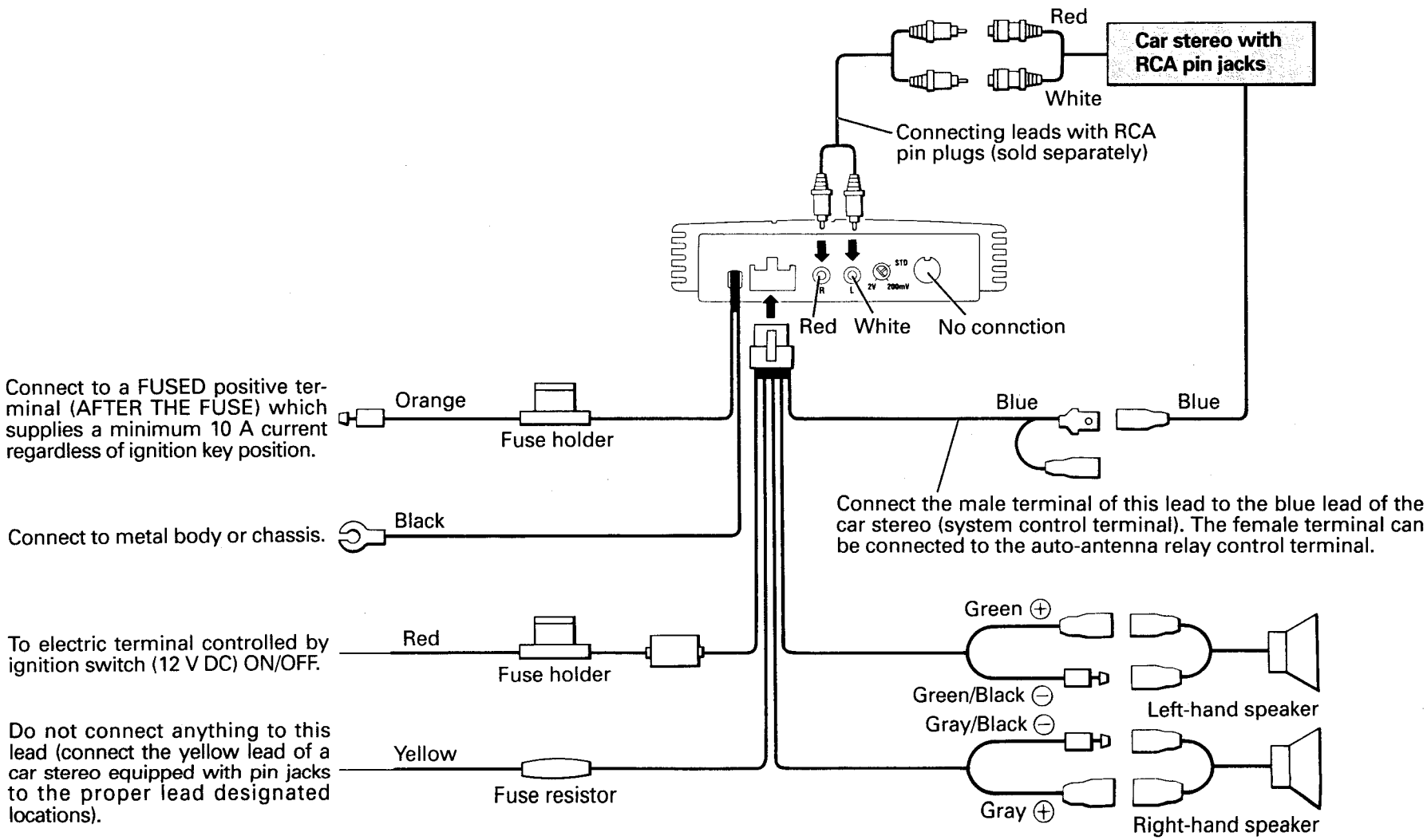
- Before finalizing installation, turn everything on, and make sure everything works correctly and that no noise is getting into the system.
- When routing leads and cords, secure them with cable retainers and electrician's adhesive tape. Also, to prevent any damage to the insulation on the leads and cords, protect them with electrician's adhesive tape wherever they may touch sharp edges.
- Keep all wiring away from hot surfaces or heater outlets to prevent short circuits.
- It is recommended that the speakers connected to the amplifier have the ratings shown below, or higher. If a speaker has a rating below that recommended, it may be damaged when the volume is turned up. The speaker impedance must be 2 to 8 ohms.

Speaker ratings	
Maximum	55 W
Nominal	25 W

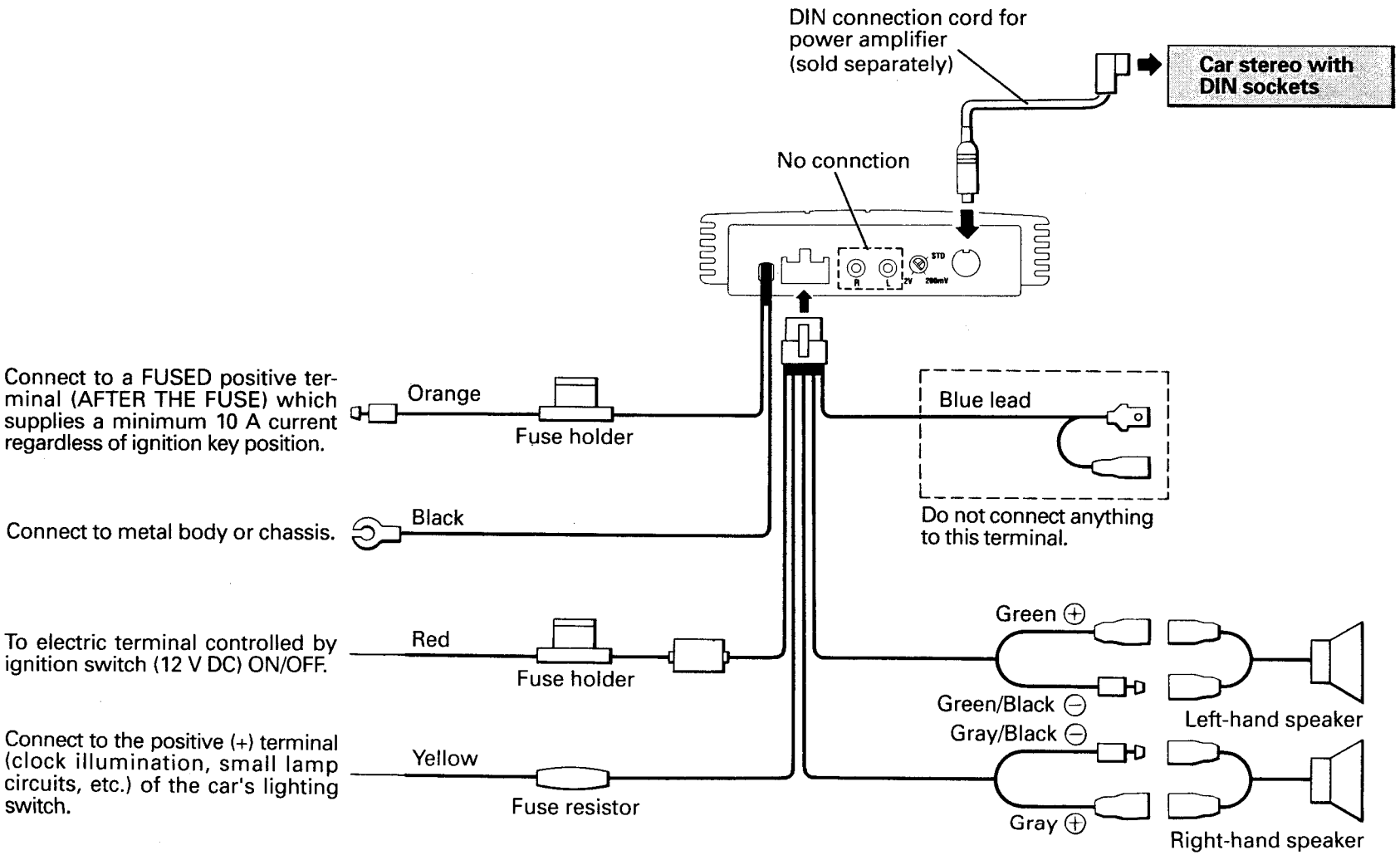
In the case of a full-range speaker, use one whose maximum rating is higher than the maximum rating shown. In the case of a sub-woofer, use one whose nominal rating is higher than the nominal rating shown.

- Never connect a speaker lead to ground or to other speaker grounds. The protection circuitry will operate instantaneously, turning off the amplifier.
- To prevent noise problems, keep the amplifier and its power leads away from signal cords, speaker leads, and the antenna cord.
- Amplifier ground leads (black) should be connected to a solid metal part of the vehicle body. If using multiple amplifiers, connect all amplifier ground leads to the same point to prevent noise problems. To get good contact when grounding, you may have to sand away the paint to expose the metal underneath.
- To operate the amplifier and car stereo properly, connect the continuous power supply lead (orange) and the accessory power lead (red) correctly. If the leads are not connected correctly or are not connected at all, the amplifier and car stereo will not work.
- To connect the amplifier to the RCA pin jacks of a car stereo component, use an audio cord with RCA pin plugs. To connect the amplifier to the DIN socket of a car stereo component, use a DIN connection cord. Both kinds of cord are available from your dealer.
- For detailed information on connections between different units and the amplifier, see the owner's manuals for the units, and follow their recommendations precisely.

When Combined with a Car Stereo with RCA Pin Jacks


Red
Car stereo with RCA pin jacks
White
Connecting leads with RCA pin plugs (sold separately)
Red
White
No connction
Connect to a FUSED positive terminal (AFTER THE FUSE) which supplies a minimum 10 A current regardless of ignition key position.
Orange
Fuse holder
Blue
Blue
Connect the male terminal of this lead to the blue lead of the car stereo (system control terminal). The female terminal can be connected to the auto-antenna relay control terminal.
Connect to metal body or chassis.
Black
To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
Red
Fuse holder
Green ⊕
Green/Black ⊖
Left-hand speaker
Gray/Black ⊖
Do not connect anything to this lead (connect the yellow lead of a car stereo equipped with pin jacks to the proper lead designated locations).
Yellow
Fuse resistor
Gray ⊕
Right-hand speaker

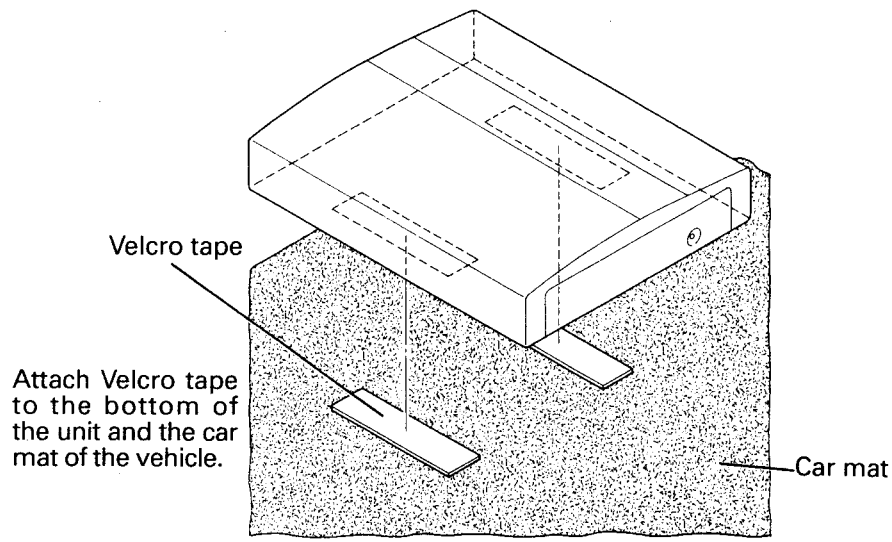
When Combined with a Car Stereo with DIN Sockets


DIN connection cord for power amplifier (sold separately)
Car stereo with DIN sockets
No connction
Connect to a FUSED positive terminal (AFTER THE FUSE) which supplies a minimum 10 A current regardless of ignition key position.
Orange
Fuse holder
Blue lead
Do not connect anything to this terminal.
Connect to metal body or chassis.
Black
To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
Red
Fuse holder
Green ⊕
Green/Black ⊖
Left-hand speaker
Gray/Black ⊖
Connect to the positive (+) terminal (clock illumination, small lamp circuits, etc.) of the car's lighting switch.
Yellow
Fuse resistor
Gray ⊕
Right-hand speaker

Installation

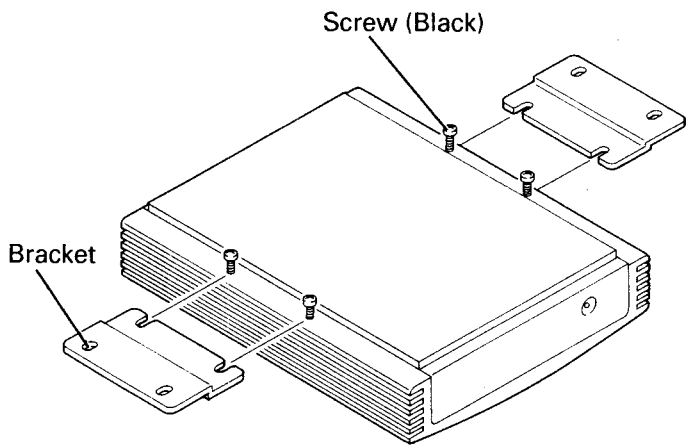
- Install the amplifier where it will not get in the way of driving, and will not be a danger to passengers during an emergency stop.
- If the amplifier is installed in the passenger compartment, fix it securely, otherwise it may break free while the car is moving, and cause an injury or an accident.
- Do not install the amplifier anywhere that can get wet, otherwise it may give an electric shock if touched.
- To prevent a short circuit, disconnect the negative battery lead before beginning installation. After installation has been completed and checked, reinstall any components that were moved or removed, then reconnect the lead to the negative battery terminal.
- Before drilling any mounting holes, check behind where you want to make the hole to make sure you do not drill into anything, such as the gas line, brake lines, electrical wiring, etc.
- If installed under a front seat, make sure the amplifier does not obstruct seat movement. Route all leads and cords carefully so the sliding seat mechanism does not pinch them and cause a short circuit.
- Do not install the amplifier under the carpet or a floor mat, as this will impede air circulation, causing the amplifier to overheat and possibly fail.
- Do not install the amplifier near the heater outlet, otherwise it may overheat and fail.
- Use only the parts supplied, and install the amplifier securely. If parts other than those supplied (specified) are used, they may come loose or cause damage to internal parts of the amplifier.
- Consult your dealer before making any holes in the car.

Mounting with Velcro Tapes

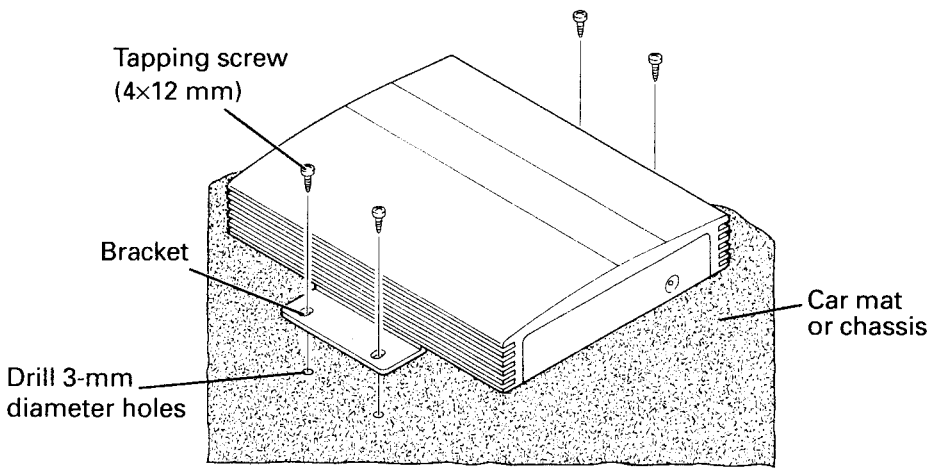


Mounting with Brackets

1. **Attaching the brackets**
   Loosen the four screws (black) on the bottom of the amplifier, insert the supplied brackets horizontally, and retighten the screws (black).



2. **For installation to the Car mat or Chassis**
   Insert the unit on the car mat or chassis using the supplied tapping screws (4×12 mm).



Care and Maintenance

- When replacing the fuse, replace it with one with the correct rating. If the correct fuse is not used, the amplifier may be damaged or there may be a fire.
- Do not use the amplifier at high volume for a long time with the engine stopped or idling. It may make the battery go flat, making it difficult to start your engine.
- The protection circuitry will operate instantaneously if a malfunction occurs, turning off the amplifier. If this happens, disconnect the power to the car stereo system, check the wiring for the cause of the problem, and, if found, correct it before using the stereo system again.
- Do not turn the volume up so high that you cannot hear police car, ambulance, or fire engine sirens.

In Case of Problems
If the amplifier will not operate properly, contact your dealer or nearest authorized Pioneer service station.

Specifications

Power source	14.4 V DC (10.8 - 15.6 V allowable)
Grounding system	Negative type
Current consumption	7 A (at continuous power, 4Ω)
Average current drawn *	2.2 A (4Ω) 3.3 A (2Ω)
Fuse	10 A
Dimensions	160 (W) × 41 (H) × 190 (D) mm
Weight	1.6 kg (Leads for wiring not included)
Maximum power output	55 W × 2 (EIAJ)
Continuous power output	25 W × 2 (at 4Ω, 20 - 20,000 Hz, 0.5% THD) 35 W × 2 (at 2Ω, 20 - 20,000 Hz, 0.5% THD)
Load impedance	4Ω (2 - 8Ω allowable)
Frequency response	10 - 50,000 Hz (+0 dB, -1 dB)
Signal-to-noise ratio	94 dB (IEC - A network)
Distortion	0.015% (at 10 W, 1 kHz)
Separation	60 dB (1 kHz)
Input level	RCA: 0.2 - 2 V /8 kΩ DIN: 100 mV /22 kΩ

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

***Average current drawn**
The average current drawn is nearly the maximum current drawn by this unit when an audio signal is input. Use this value when working out total current drawn by multiple power amplifiers.

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